



IUID Registry Overview

Jenna Tomalka, System Ops Manager

IUID Registry

April 26, 2012



Today's Topics

- **What is the IUUD Registry**
- **Policy**
- **System Management Office**
- **Data Flow**
- **High level Functionality**
- **Lessons Learned**
- **Questions**



What Is the IUID Registry?

- Central Repository for IUID Information
<https://www.bpn.gov/iuid>
- Serves as acquisition gateway to identify:
 - Description of the item
 - How and when the item was acquired
 - Acquisition cost of the item
 - Current custody (GFP or Government)
 - How the item is marked
 - Embedded items (as of acceptance, and as of transfer of custody)
 - Warranty flag
- The master data source for Government Furnished Property



IUID is a Policy Requirement

- DoD Directives and Instruction:
 - <http://www.acq.osd.mil/dpap/pdi/uid/directives.html>
 - DODI 8320.04
 - MIL STD 130
- Regulations, Memos, Guides
 - http://www.acq.osd.mil/dpap/pdi/uid/policy_and_regulations.html
 - DFARS 252.211-7003, 252.211-7007, Memo on Secondary Items
- Instructions and Memos specific to the



Mark and Register

- For principle end items and contractor marked secondary items, the criteria are:
 - All items for which the government's acquisition cost is \$5000 or more;
 - Items for which the government's acquisition cost is less than \$5000 when identified by the requiring activity as **DOD serially managed, mission essential, or controlled inventory**;
 - When the government's unit cost is less than \$5000 and the requiring activity determines permanent identification is required;
 - Regardless of value, any DOD managed subassembly,



Mark and Register

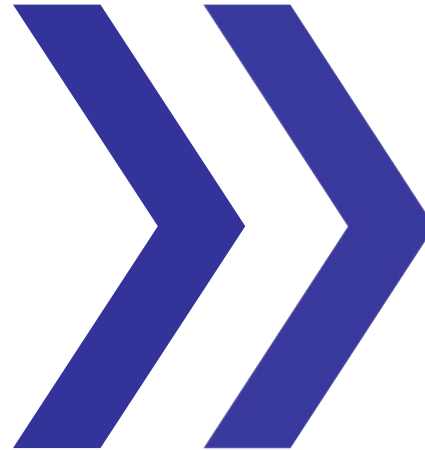
- For secondary items in inventory or in use, the criteria are:
 - All DOD serially managed items including, but not limited to: sensitive, critical safety or pilferable items that have a unique item-level traceability requirement at any point in their lifecycle, and all depot level reparables.
 - Any other items the requiring activity decides requires unique item level traceability at any point in their lifecycle. (*Policy Refinement for Secondary Items in Use or In Inventory, Dec. 30, 2010.*)



Basics



Vendor and
Government Item
Data



**IUID
Registry**

Various Item Identifiers are concatenated and marked on the item, as prescribed in the Contract, Policy, and MIL Standard 130, resulting in sets of standardized, globally unique item identifiers.

Required
standard data
set sent to the
Registry

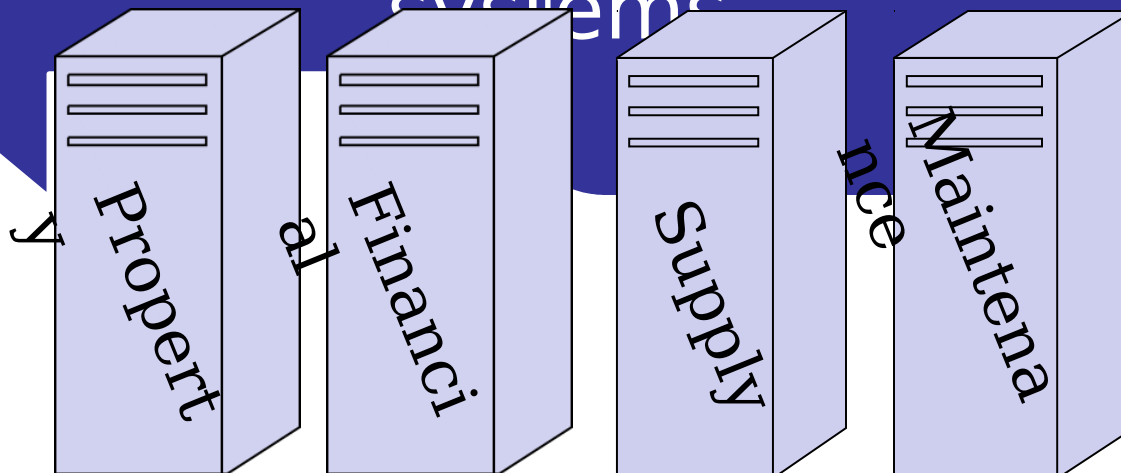
IUID Registry validates the data set, and makes it available for update, correction and query.

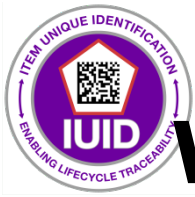


The UII is the Key



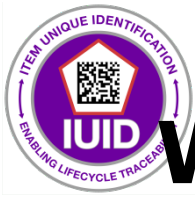
The UII is the key to access
item data across DOD
systems





What Does the Registry Staff Do?

- Change Management: Manage the Registry requirements process
- IT: Design, develop, test, release
- Helpdesk: Functionality and implementation questions; vet and complete data correction and deletion requests
- Outreach and communication



What's Outside the SMO's Scope?

Registry System Management Office does not:

- own the requirements and schema
- approve every data correction request
- often do training outside of the forums
- implement IUId requirements at the component, service, or program level
- recommend solution providers
- know the specifics of your Component's plan



Resources

- IUID Service Implementation Leads
- OASD for Logistics and Materiel Readiness, Office of Deputy Assistant Secretary for Supply Chain Integration (ODASD(SCI)), website: [http://
www.acq.osd.mil/log/sci/index.htm](http://www.acq.osd.mil/log/sci/index.htm)
- OSD for Acquisition, Technology, and Logistics, Office of Defense Procurement and Acquisition Policy website: [http://
www.acq.osd.mil/dpap/pdi/uid/index.html](http://www.acq.osd.mil/dpap/pdi/uid/index.html)



Registry Snapshot



Registry Statistics

as of 4 April 2012

- **17,969,302 Items registered**
- **12,131,640 New items**
- **5,373,812 Legacy**
- **2,639 Contractors have delivered new UIIs**
- **Growth rate of over 44,000 new UIIs/week**
- **640,895 Items are in GFP status**



IUID Registry Metrics

- 5.3 M Legacy UIDs
 - Approximately 2.0 M Legacy items originally registered with DEFINED (virtual)
 - .3 M of them have since been converted to 2-D matrix
 - 1.7 M virtuals have not been converted
- Where is the XML Direct Submit Data Coming From?
 - There are 159 unique Government Systems submitting data via GEX
 - There are 352 unique vendor systems submitting data via GEX. *This does not include WAWF R/A files, or users submitting via the IUID Web Interface.*



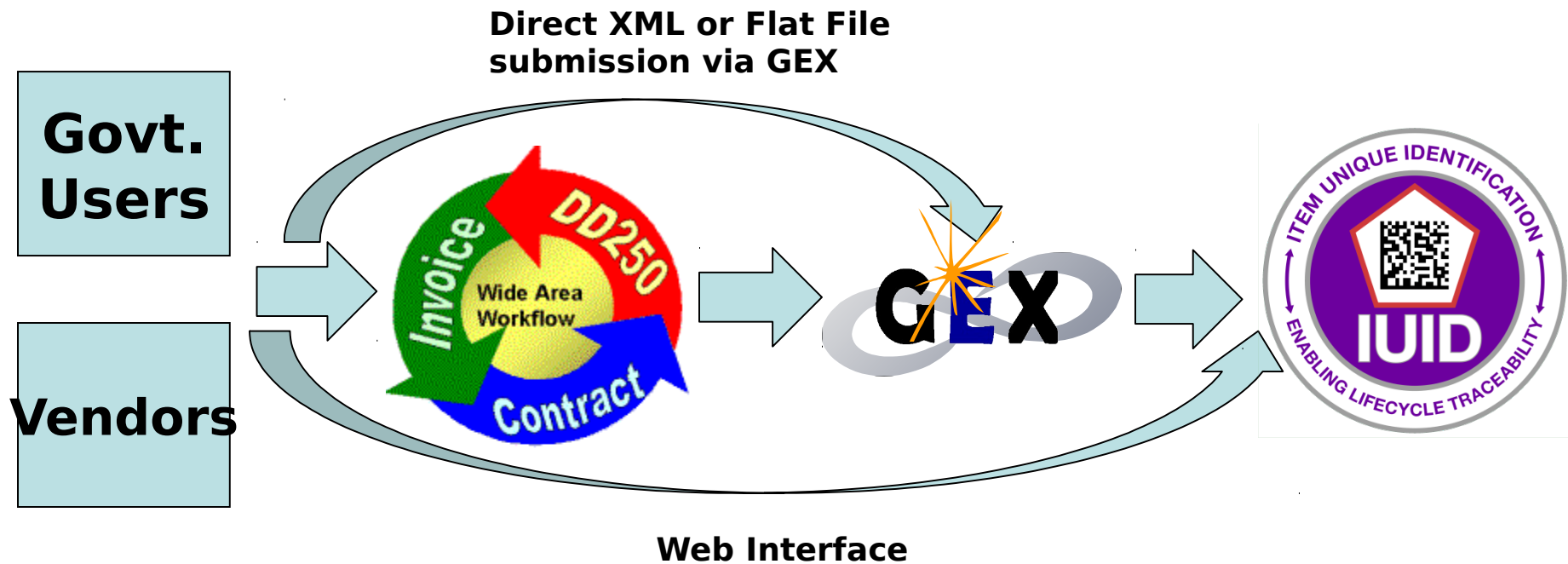
What's being sent?

```
<LegacyOrNewCode>NEW</LegacyOrNewCode>
<Version>3.4.1</Version>
- <Contact>
  <Name>KAJ</Name>
  <Organization>1DZR8</Organization>
  <Phone>555.555.5517</Phone>
</Contact>
- <AddItem>
- <EndProduct>
  <ContractNumber>RTEST341V40</ContractNumber>

<PrimeContractorIdentifier>53218</PrimeContractorIdentifier>
- <ContractInfo>
  <AcceptanceCode>Q99999</AcceptanceCode>
  <AcceptanceDate>2009-04-10</AcceptanceDate>
  <AcquisitionCost>1</AcquisitionCost>
  <ClinSlinElin>8472</ClinSlinElin>
  <Description>V3.4.1 Regression Testing -- New
GFP</Description>
  <ForeignCurrencyCode>USD</ForeignCurrencyCode>
  <ShipToCode>S1005A</ShipToCode>
```



Data Paths





Registry Functions and User Interfaces: Input

- **ADD:** Receive, validate and process UII Registration and non-UII GFP transaction data
➡
 - WAWF -> GEX
 - GEX direct
 - Registry Web Interface
 - WAWF -> GEX (custody only)
- **UPDATE:** Receive, validate and process Updates to UII Data
➡
 - GEX direct
 - Registry Web Interface
 - DPAS, eTools, LTDD
- **CORRECT:** Receive, validate and process Corrections for 60 days after initial entry; non-WAWF and non-
➡
 - Registry Web Interface



Registry Functions and User Interfaces

- **Queries and Reports:**

Receive, validate and process data calls from Government and Industry Users for specified sets of data.



- Registry Web Interface
- APIs



Required Data Elements

For the list of optional and required data elements and the associated rules, please see the IU ID Elements Structure document (available for download on the Data Submission Information page at:

http://www.acq.osd.mil/dpap/pdi/uid/data_submission_information.html#q3).



Updates

Registry can receive updates when there are changes to:

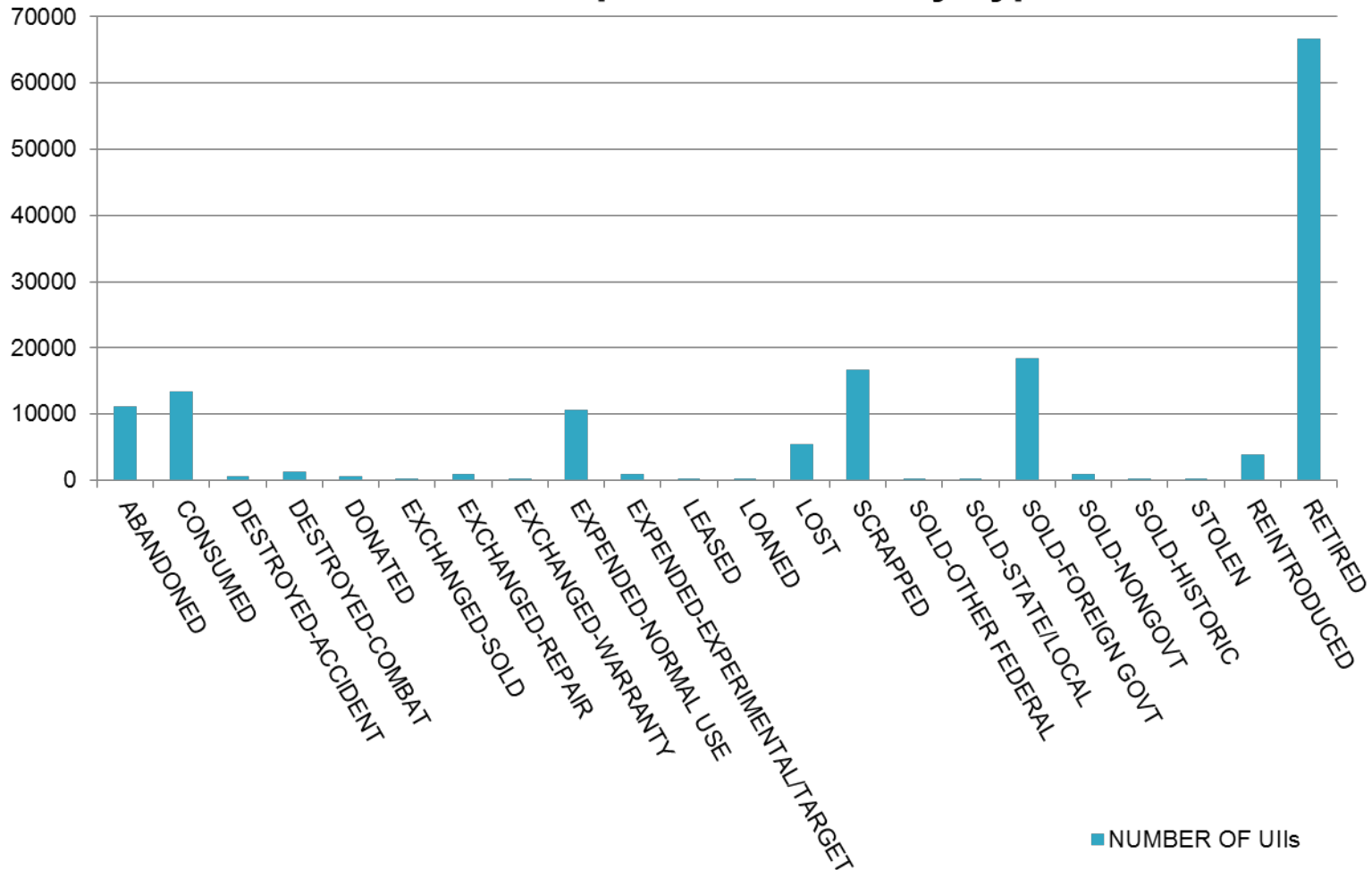
- Custody
- **Life Cycle Event**
- Physical Markings
- Embedded status
- Part or Batch/Lot number (Rollover due to form, fit or function change)
- Special Test Equipment Status
- Item Owner (Service or Agency)
- Type Designation
- Condition Code



IUID Registry UII Disposition by Type

<1% of UIIs have Disposition data

Disposition of UIIs by Type





How do I submit data?

➤ **Wide Area Workflow (WAWF)**

- DoD Paperless Invoicing, Receipt and Acceptance, & Property Transfer
- IUIG data automatically flows
- Apply for a WAWF account

➤ **Global Exchange (GEX)**

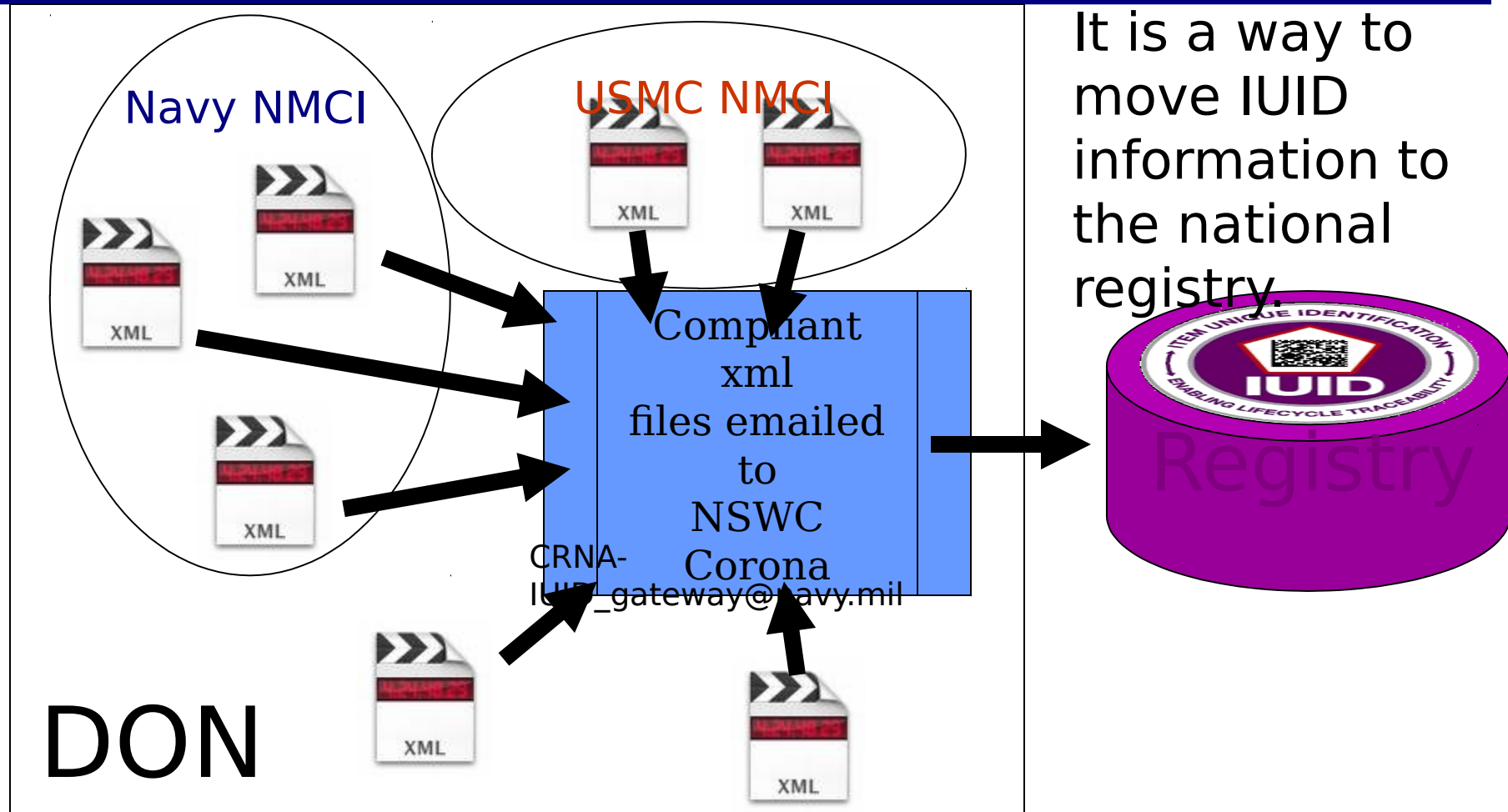
- Data Transformation and Routing
- For direct submission of Registry data via XML or Flat File
- Apply for a GEX account

➤ **IUIG Registry Website**

- Apply for Registry access



NSWC Corona's IUID Gateway Service



Limited to Department of the Navy (DON)
organizations with a requirement to upload IUID



How do I access my data?

➤ **Website:**

- Queries, Reports
- Apply for IUOID Registry Website account at www.bpn.gov/iuid, “Register,” “New User.”

➤ **System to System:** APIs and Oracle-to-Oracle views

- Secured APIs require a Registry account
- Other data access requires Interface Control Agreement; contact Will Whittington, PM



Queries and Reports

Queries

- Single Item
- Contract
- Composition
- GFP Custody by Contract
- GFP Custody by CAGE/DUNS
- Mark Query
- Pedigree Query
- Part Number Query
- Web User Activity
- nonUII GFP
- GFP Reconciliation Query
- Active Part/Serial/Batch/Lot Number Query

Requested Reports

- GFP Summary by Contract
 - GFP Summary by Contractor
- *Availability of Queries and Reports depends on Access of the User.*





Application Program Interface (API)

APIs are in place to Automate system-to-system querying of the IUIG Registry

- **UII Verification**
- **UII Retrieval from Elements**
- **UII Validation**
- **Elements Retrieval from UII**
- **UII Retrieval from Marks**
- **Warranty**
- **General Purpose API - Government (Secure)**
- **General Purpose API - Industry (Secure)**
- **Acquisition Contract API**

IUIG API SUM – The Software User Manual can be downloaded from:

http://www.bpn.gov/iuidapi2/IUIG_Reg_API_Guide_SUI.doc





Data Quality by the Numbers

150

validations on new items.

95%

of Registry data comes via GEX. Only 5% is submitted on the

Registry website.

days from entry is the window users have to make corrections via the website.

60



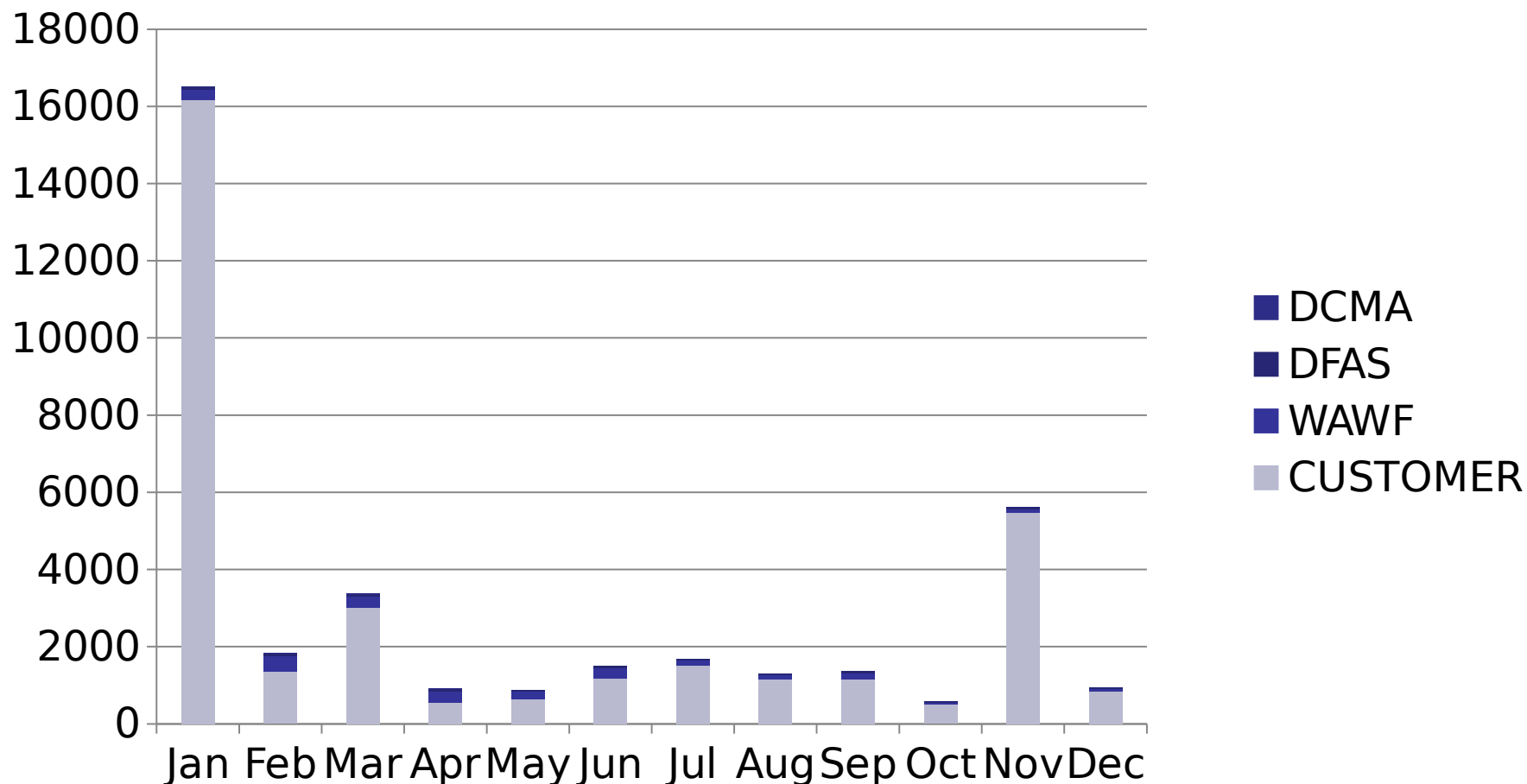
Corrections and Deletions

- XML Rejections for validation failure:
 - 1923 XML files containing 145,830 UIIs were failed during the month of January 2012
 - avg. 75 UIIs per failed file
 - 37,785 Total files received; 5.1% failure rate
- Corrections and Deletions Requests
 - Over 2010 and 2011, the Program Management Team approved the correction (or deletion for reentry) of an average of 7000 UIIs (or their associated data) /month.



2011 Failed XML Files by Source

36,505 total failed files





Lessons Learned

- Enterprise Identifier = Enterprise that is ensuring the serial number (and UII) is unique within that enterprise (CAGE/DUNS), or within that enterprise's part number.
- Items that are marked with a Type 1 UII using sequential tags from a solution provider should also be registered with additional marks, like the OEM serial, or part/serial.
- Do not use the custody field to show a change in location or ownership within the DOD; this is only for transfer of GFP on a contract to a contractor and back.



Lessons Learned

- Do not use the custody field or a life-cycle event of “loaned” to show a transfer of property from the Prime contractor’s location to a sub contractor.
- Please do not request a deletion of accepted UIIs because the UIIs do not match a Service legacy marking scheme. If the data was correct at the time of Registration, (not inaccurate), then the UII is for the life of the item.
- Don’t just submit the minimum amount of data. Submit as many of the optional elements as you have- Item owner, additional marks (OEM Part, NSN, **Service/Agency/Command**, etc.)



Registry Helpdesk Contact Information

- **For help with Registry access, functionality, or special queries or reports:**

IUID.HelpDesk@bpn.gov

269-961-4745

- To register for an IU ID Registry website account:

<https://www.bpn.gov/BRS>

- Jenna Tomalka, System Operations Mgr.

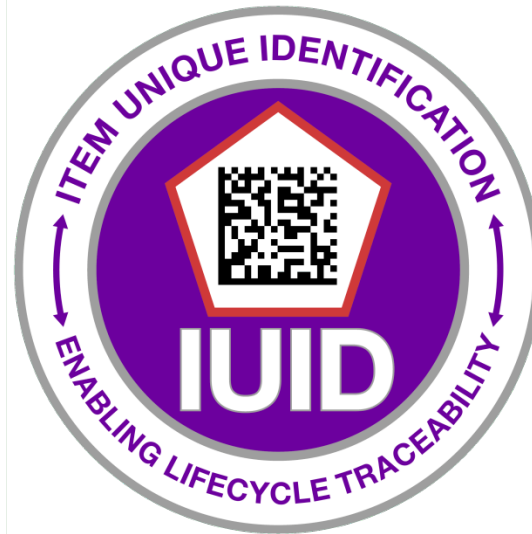
Jennifer.Tomalka@dla.mil

- Will Whittington, System Manager

William.Whittington@dla.mil



Questions?



BACK-UP SLIDES

April 26, 2012



Access to the Registry Website and Secured APIs

The access granted to the user determines the data and functionality available to that user.

- **Contractor:**

- Add new IUID records that have been produced under contracts assigned to your CAGE/DUNS.
- Update existing IUID records that are currently in your Custody.
- Correct existing IUID records that you have entered and are less than 30 days old.
- Query IUID records that you have entered, or are under contracts assigned to your CAGE/DUNS, or are currently in your Custody.

- **Legacy:**

- Add new IUID records
- Update existing IUID records.
- Correct existing IUID records and sub records that have been entered by your organization and are less than 30 days old.
- Query IUID records.
- Run GFP Reports for IUID records.

- **Inquiry and DCMA:**

- Query IUID records



Submitting files via GEX

Set up a GEX account to submit the files by SFTP or HTTPS. Laura Wallace and her team at JITC will be providing the data validation on practice files before access is set up.

Step 1 - Complete IU ID data format testing with Laura Wallace Laura.Wallace.ctr@disa.mil. Please contact Laura and she will provide additional information. You will be sending her the file in an email as an attachment for the test.

Step 2 - Laura will provide the GEX Application form. When completed, send back to Laura.

Please note that both steps can be completed at the same time. GEX access will be granted after successful validation testing is completed.

If you have any questions on the GEX application, please contact Laura. If you have questions on Registry functionality, please contact Kelsey at the iuid.helpdesk@bpn.gov. Please note that both steps can be completed at the same time. GEX access will be granted after successful validation testing is completed.



Queries and Reports

- **Single Item Query:** Provides the user with the pedigree or “birth record” of the item, as well as composition, mark, lifecycle, and custody information. Now presents an “Active” section containing the most current Part Numbers and descriptions.
- **Contract Query:** Provides the user with all the Unique Item Identifiers (UIIs) delivered on a specific acquisition contract as of a specific date.
- **Composition Query:** Provides the user with the composition (parent and/or child item) information for a specific item.
- **GFP Custody by Contract Query:** Provides the user with a list of Government Furnished Property (GFP) items furnished under a specific custodial contract as of a specific date.
- **GFP Custody by CAGE/DUNS Query:** Provides the user with a list of all GFP items furnished to a contractor. Queries can be submitted using either the Commercial and Government Entity (CAGE) or the Data Universal Numbering System (DUNS).
- **Mark Query:** Provides the user with a list of all items having a physical mark matching those in the request.



Queries and Reports

- **Pedigree Query:** Provides the user with a list of items matching a requested serial number, part number, lot/batch number, and/or enterprise identifier as part of the UII's pedigree elements.
- **Part Number Query:** Provides the user with a list of items that have the requested part number.
- **GFP Reconciliation Query:** Provides the user with a list of GFP items provided to the requested contractor CAGE or DUNS and the current custodial status of the items.
- **Active Part/Serial/Batch/Lot Number Query:** Provides the user the most current part number, batch/lot number, serial number and description for each item matching the requested criteria.
- **GFP Summary by Contract Report:** Provides the user with a summary count and value of GFP items associated with the contract number requested.
- **GFP Summary by Contractor Report:** Provides the user with a summary count and value of GFP items provided to a contractor using the CAGE or DUNS.



Application Program Interface (API)

The list of currently available APIs includes:

- **UII Verification:** Allows a user system to verify if a specific UII is already in the system.
- **UII Retrieval from Elements:** Allows a user system to retrieve the matching UII (if found) for each set of pedigree data provided. A set of pedigree data requires the enterprise identifier and serial number, and may include the part number and/or batch/lot number.
- **UII Validation:** Allows a user system to verify lists of UIIs are correctly constructed.
- **Elements Retrieval from UII:** Allows a user system to retrieve UII elements for a list of UIIs submitted.
- **UII Retrieval from Marks:** Allows a user system to retrieve UII matching the Mark Section data requested.
- **Warranty:** Allows a user system to retrieve basic warranty information.
- **General Purpose API (secure):** Allows a government-user system to retrieve specific data for UIIs submitted. Requires a Controlled Access account. The Industry version allows an industry-user system to retrieve specific data for UIIs for which that contractor is the prime or custodial contractor.